

Listing of Claims

Claims 1-3 (Previously Canceled)

Claim 4 (Canceled)

Claim 5 (Canceled)

Claim 6 (Previously Canceled)

Claim 7 (Canceled)

Claim 8 (Previously added) A method for statistical multiplexing of ATM links, comprising:

providing a plurality of virtual connections which transmit ATM cells via a connecting line;
and

assigning incoming connections to a first or a second class depending on a result of a predetermined analysis, wherein the first class is subdivided into sub-classes, wherein the analysis is performed, in sequence, on each of the sub-classes until the incoming connection is assigned to a sub-class or all the sub-classes have been analyzed. *a of the*

Claim 9 (Previously added) The method as claimed in claim 8, wherein at least one transmission parameter of the connecting line or the connection are used to determine the result of the analysis.

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Claim 10 (Previously added) The method as claimed in claim 8, wherein at least one of the transmission parameters and the analysis results are stored in a network node and are updated when an ATM link is set up and/or cleared.
